

ROA 02-05-03
09/683,812In the Claims:

Please amend the claims as follows:

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1. (Currently Amended) A mounting apparatus for a telescope, comprising:
 - a mount for attachment to a the telescope, the mount providing a non-circular groove;
 - a non-circular rail insertable in the groove of the mount;
 - an adjustable platform providing a second non-circular groove, adaptable for mounting a photonic receptor device axially parallel to a longitudinal optical axis of the telescope on said rail;
 - whereby the photonic device ~~may~~ is configured to be mounted and adjusted to align the photonic device on the longitudinal optical axis of the telescope system.
 2. (Currently Amended) The mounting apparatus of claim 1 further comprising an opaque hood to ~~covering the~~ a space formed between ~~after alignment of an eyepiece of the telescope lens-eyepiece with~~ and the photonic receptor device following alignment.
 3. (Currently Amended) The mounting apparatus of claim 1 wherein the mount for attachment to a telescope comprises:
 - a rear cell adapter providing a throat for engagement of an ~~the~~ telescope eyepiece of the telescope;
 - a yoke compressively fitted around said rear cell adapter; and,
 - a non-circular groove on said yoke for engagement with a mounting rail.
 4. (Currently Amended) The mounting apparatus of claim 1 wherein the non-circular rail comprises:
 - a lightweight elongate square member providing a groove therethrough whereby a wrench ~~may~~ is configured to be inserted through the rail; and,
 - a space for insertion of a locking device on each end of the non-circular rail whereby the rail may not be inadvertently removed from the yoke groove of the mount.

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5. (Currently Amended) The mounting apparatus of claim 1 wherein the adjustable platform comprises:

a second groove adaptable for insertion and retention of the rail;

a means for movement of photonic receptor in each of the axes planes perpendicular to the longitudinal optical axis of the telescope; and,

a means for tilting the photonic receptor in the longitudinal optical axis of the telescope.

6. (New) An apparatus to record distant images, the apparatus comprising:

a telescope, said telescope having an eyepiece, said eyepiece defining a first optical axis;

a mount for attachment to said telescope adjacent said eyepiece, the mount providing a yoke;

said yoke configured to receive a proximal end of a non-circular rail, said non-circular rail defining a rail axis;

an adjustable platform configured to mount a camera, the camera having a second optical axis;

said adjustable platform configured to be mounted upon a distal end of said non-circular rail; and

said adjustable platform is configured such that said second optical axis is axially parallel to said first optical axis and a distance between said eyepiece and said camera is adjustable along said rail axis.

7. (New) The apparatus of claim 6 wherein said rail axis is substantially parallel to said first optical axis.

8. (New) The apparatus of claim 6 wherein said distance between said eyepiece and said camera is covered by an opaque hood.

9. (New) The apparatus of claim 6 wherein said non-circular rail includes a threaded hole and a corresponding set screw to prevent accidental removal of said non-circular rail from said yoke.

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10. (New) The apparatus of claim 6 wherein said non-circular rail includes a threaded hole and a corresponding set screw to prevent accidental movement of said non-circular rail relative to said camera.
11. (New) The apparatus of claim 6 wherein said adjustable platform is configured to allow said camera to be manipulated in a plane perpendicular to said second optical axis.
12. (New) The apparatus of claim 6 wherein said adjustable platform is configured to allow said camera to be tilted in said second optical axis.
13. (New) The apparatus of claim 6 wherein said camera is a still camera.
14. (New) The apparatus of claim 6 wherein said camera is ^a motion camera.
15. (New) The apparatus of claim 6 wherein said camera is a film camera.
16. (New) The apparatus of claim 6 wherein said camera is a CCD camera.
17. (New) The apparatus of claim 6 wherein said telescope is a Schmidt-Cassegrain telescope.
18. (New) An apparatus to mount to a telescope, the apparatus comprising:
 - a mount for attachment to the telescope wherein the telescope defines a first optical axis, the mount configured to receive a rail, said rail defining a rail axis;
 - an adjustable platform configured to mount a camera, the camera having a second optical axis;
 - said adjustable platform configured to be mounted upon said rail; and
 - said adjustable platform is configured such that said second optical axis is substantially axially parallel to said first optical axis and a distance between said ^{telescope} eyepiece and said camera is adjustable along said rail axis.

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19. (New) The apparatus of claim 6 wherein said adjustable platform is configured to allow said camera to be manipulated in a plane perpendicular to said second optical axis.

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Sent 20. (New) The apparatus of claim 6 wherein said adjustable platform is configured to allow said camera to be tilted in said second optical axis.
